

**COATING COMPOSITIONS COMPRISING SILYL BLOCKED
COMPONENTS, COATINGS, COATED SUBSTRATES
AND METHODS RELATED THERETO**

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ABSTRACT

Coating compositions formed from at least one hydroxyl functional non-
vinyl material comprising at least one alcoholic hydroxyl group blocked with a
hydrolyzable silyl group, and at least one curing agent are provided by the
present invention. Another embodiment of the present invention is directed to a
10 coating composition formed from components comprising at least one
carbamate functional material comprising at least one carbamate group
blocked with a hydrolyzable silyl group, and at least one curing agent. Another
embodiment of the present invention is directed to a coating composition
formed from components comprising at least one carboxyl functional material
15 comprising at least one carboxyl group blocked with a hydrolyzable silyl group,
and at least one curing agent. Another embodiment of the present invention is
directed to a coating composition formed from components comprising at least
one amide functional material comprising at least one amide blocked with a
hydrolyzable silyl group, and at least one curing agent. Other embodiments of
20 the present invention are directed to substrates coated with the aforementioned
cured compositions. Also provided are multi-component composite coatings
which include a cured basecoat deposited from a pigmented coating
composition and a cured topcoat deposited from a topcoating composition.
The multi-component composite coatings of the invention provide highly
25 scratch resistant color-plus-clearcoatings. Further embodiments of the present
invention are directed to methods for improving scratch resistance of a
substrate.